

**AMENDMENTS TO THE CLAIMS**

**This listing of claims will replace all prior versions and listings of claims in the application:**

**LISTING OF CLAIMS:**

1. (currently amended): A Method ~~method~~ of managing services offered by communication ~~equipment~~equipment (~~Sk~~) of an Internet Protocol communication network (~~N~~), characterized in that ~~wherein it~~ the method comprising ~~consists in~~: reporting to communication ~~equipment~~equipment (~~Tk~~) that are situated in portions of said network (~~N~~) that have service selection means and in portions of said network (~~N~~) that have no service selection means services offered by the communication ~~equipment~~equipment (~~Sk~~) that belong to said network portions (~~N~~) that do not have service selection means.

2. (currently amended): ~~Method~~ The method according to claim 1, characterized in ~~that~~wherein service data representing that service is integrated into the address of said communication ~~equipments~~equipment (~~Sk~~) offering a service.

3. (currently amended): ~~Method~~ The method according to claim 2, characterized in ~~that~~wherein said addresses containing the service data are stored at least in said communication ~~equipment~~equipment (~~Tj~~) using ~~said~~ appropriate network layer protocol versions.

4. (currently amended): ~~Method~~ The method according to claim 3, characterized in ~~that~~wherein said addresses containing address data representing addresses of ~~equipments~~

equipment that offer a service ( $Sk$ ) and service data representing the service offered and said address data is stored in corresponding relationship to said service data.

5. (currently amended): ~~Method~~ The method according to claim 3, characterized in thatwherein, if one of said communication ~~equipments~~ equipment ( $Tj$ ) wishes to access a selected service, the address data representing the address of the equipment ( $Sk$ ) offering said selected service is determined in that communication equipment ( $Tj$ ) in order to set up a connection therewith.

6. (currently amended): ~~Method~~ The method according to claim 1, characterized in thatwherein said addresses containing ~~said~~ address data and ~~said~~ service data are broadcast in said network.

7. (currently amended): ~~Method~~ The method according to claim 6, characterized in thatwherein said addresses are broadcast in service messages.

8. (currently amended): Method according to claim 1, characterized in thatwherein in the presence of two ~~equipments~~ equipment ( $Sk$ ,  $Sk'$ ) offering the same service in accordance with different network layer protocol versions, one of the two ~~equipments~~ equipment ( $Sk$ ) is selected as a function if of its protocol version, after which a packet is generated and sent to said selected equipment ( $Sk$ ) in the format of the selected version having a header containing at least the address data representing the destination address of the selected equipment ( $Sk$ ).

9. (currently amended): Communication equipment (T) for an Internet Protocol communication network, characterized in thatwherein itsaid communication equipment comprises management means (MG) adapted, firstly, in the event of receiving address data representing an address of another equipment (Sk) belonging to a portion of said network (N) that has no service selection means and offers a service and service data representing said offered service, to store said received address data in a memory (M) in corresponding relationship to said service data received conjointly, and, secondly, in the event of a request to access a selected service, to determine in said memory (M) the address data representing the address of the equipment (Sk) that offers said designated service, in order to set up a connection therewith.

10. (currently amended): The Equipment communication equipment according to claim 9, characterized in thatwherein said management means (MG) are adapted, in the event of determination in said memory (M) of two equipments equipment (Sk, Sk') offering the same service in accordance with different network layer protocol versions, to select one of the two equipmentsequipment (Sk) as a function of its protocol version and then to generate and send to said selected equipment (Sk) a packet with the format of the selected version and containing a header containing at least said address data representing the destination address of the selected equipment (Sk) in order to set up said connection therewith.

11. (currently amended): Equipment The communication equipment according to claim 9, characterized in thatwherein it is selected from a group comprising at least servers and communication terminals (T).

12. (currently amended): A Service-service equipment (Sk) offering at least one service and belonging to a portion of an Internet Protocol communication network (N) that has no service selection means, characterized in that it wherein said service equipment comprises sender means (ME)-adapted to broadcast messages containing address data representing their own address and service data representing said service offered in said network (N) to communication equipment equipment (Tj) according to claim 9.

13. (currently amended): Equipment The service equipment according to claim 12, characterized in that wherein said sender means (ME) are adapted to place said address data and said service data in the address field of the data packet header.

14. (currently amended): Equipment The service equipment according to claim 13, characterized in that wherein in the presence of an IPv6 type protocol format, said sender means (ME) are adapted to place said address data and said service data in the last 64 bits of the 128 bits of the IPv6 format address field, the first 64 bits of said 128 bits being dedicated to identifying the network portion and to the route for contacting said service equipment (Sk) whose address is defined in the last 64 bits.

15. (currently amended): Equipment The service equipment according to claim 14, characterized in that wherein said sender means (ME) are adapted to place a first portion of the service data in six of said last 64 bits and a second portion of said service data and said address data in the remaining 58 bits of said last 64 bits, said first portion being dedicated to a type of service and said second portion being dedicated to a sub-type of said type of service.

16. (canceled)